



DC Brushless Motor Driver IC

PT-301E
PWM Speed Controller
Overview

The PT301E is a universal DC brushless motor driver IC. PT301E is design for varies motor applications. PT301E driver IC can use for signal coil DC and traditional double coil DC brushless motor. This driver IC accepts the hall IC input and drives the motor coil directly without any other describe transistor. Driver IC can drive the DC brushless motor to start operation at the lowest voltage of 1.5V, but this IC can operate for a wide voltage range from 2.0V up to 6.5V. PT301E driver IC can support large current up to 400mA

Applications

- Single coils DC brushless motor.
- Traditional double coil DC Brushless motor
- DC 1.5V~6.5V.
- FG(Divide 2) / Eight Pole fan

Features

- PWM speed control
- Motor lock protection
- Built-in protection circuit for transient output
- Frequency Generation output (Divide 2)
- Low power dissipation and high driving efficiency
- Ultra-low start voltage

Input Devices

- Hall IC

Specifications**Absolute Maximum Ratings (Ta = 25°C)**

Parameter	Symbol	Conditions	Ratings	Units
Maximum supply voltage	V _{DD} ^{max}		6.5	V
Allowable power dissipation	P _d		350 [*]	mW
Operating temperature	T _a		-30 ~ +125	°C
Storage temperature	T _s		-55 ~ +150	°C
Output Continuous current	I _{out}	Max.	400	mA
Output Peak current	I _{out}	T ≤ 20us	600	mA

* On 50mm x 50mm x 1.6mm glass epoxy board

Package: SOT-28